#5

SEQUENCE LISTING

<110> Jonathan W.

<120> Methods and Products for Peptide-Based cDNA
      Characterization and Analysis

<130> 2087 010261

<140> US 09/788,269
<141> 2001-02-16

<150> US 60/182,983
<151> 2000-02-16

<160> 17

<170> Microsoft Word 97 SR-2

<210> 1
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Example of sequence made up entirely of six-codon amino acids

<400> 1
Leu Arg Arg Leu Leu Arg
  1   5

<210> 2
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Example of sequence made up entirely of one-codon amino acids

<400> 2
Met Trp Trp Met Met Trp
  1   5

<210> 3
<211> 100
<212> DNA
<213> Homo sapiens

<400> 3
gaattcttac acctcatact ttcccaagcc ccaactttct catctgaaaa tggtaatagt 60

atcatcctta catgtttaag gtcatgaatt gctatgtgta   100

<210> 4
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4
Thr Met Ile Thr Pro Ser Leu His Ala Cys Arg Ser Thr Leu Glu Asp
  1   5   10   15

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<210> 5
<211> 100
<212> DNA
<213> Homo sapiens

<400> 5
gaattcacat aaatcgcaaa ttttttttc cttcccagag ccatccaaaa ctctgtttgt 60

caaaggcctg tctgaggata ccactgaaga gacattaaag                       100

<210> 6
<211> 99
<212> DNA
<213> Homo sapiens

<400> 6
gaattctctt gggttttgtg gtgtgctaga cttaattacc catgaatgat tttgtcctct 60

tgagaaaatt tcaatagcac atctattagt gttttttat                        99

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> SITE
<222> (4)..(9)
<223> Oligonucleotide primer containing EcoRI site

<400> 7
cccgaattca gcaggtaaaa atcaagg                                      27

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<221> SITE
<222> (4)..(9)
<223> Oligonucleotide primer containing EcoRI site

<400> 8
ggggaattct tactcttctc cactgctat                                   29

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Nucleotide input sequence used to deonstrate computer program
      capabilities

<400> 9
caactagaag aggtaagaaa ctat                                        24

<210> 10
<211> 8
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<212> PRT
<213> Artificial Sequence

<220>
<223> Computer program output of encoded peptides

<400> 10
Gln Leu Glu Glu Val Arg Asn Tyr

<210> 11
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> exon
<222> (37).. (283)

<400> 11
gggaagccca tctccagctg tctgtttccc tttaagtcga atcaagagca acgtggatgg 60
gcggtacctg gtggacggcg tccctttcag ctgctgcaat cctagctcgc cacggccctg 120
catccagtat cagatcacca acaactcagc acactacagt tacgaccacc agacggagga 180
gctcaacctg tgggtgcgtg gctgcagggc tgccctgctg agctactaca gcagcctcat 240
gaactccatg ggtgtcgtca cgctcctcat ttggctcttc gaggtaggcc ctgggcagct 300
gggggtagag ggtaaggaga gcctcc 326

<210> 12
<211> 36
<212> DNA
<213> Artificial sequence

<220>
<223> Primer synthesized and used to PCR amplify rds/peripherin exon 2
     from an individual known to carry a wild type allele of
     rds/peripherin.

<400> 12
ggcccggaat tctccagctg tctgtttccc tttaag 36

<210> 13
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> Primer synthesized and used to PCR amplify rds/peripherin exon 2
     from an individual known to carry a wild type allele of
     rds/peripherin.

<400> 13
aatttactcg agctaccccc agctgcccag ggcctac 37

<210> 14
<211> 364
<212> PRT
<213> Artificial sequence

<220>
<223> Fusion protein

<400> 14

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Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
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Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
            20                  25                  30
Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
            35                  40                  45
Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
    50                  55                  60
Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
65                  70                  75                      80
Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
                85                  90                  95
Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
                100                 105                 110
Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
            115                 120                 125
Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
    130                 135                 140
Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
145                 150                 155                 160
Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
                165                 170                 175
Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
                180                 185                 190
Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
            195                 200                 205
Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
    210                 215                 220
Arg Gly Ile Gln Asp Leu Val Pro His Thr Thr Pro His His Thr Thr
225                 230                 235                 240
Pro His His Thr Thr Pro His His Thr Thr Pro Gln Asp Leu Asn Ser
                245                 250                 255
Pro Ala Val Cys Phe Pro Leu Ser Arg Ile Lys Ser Asn Val Asp Gly
                260                 265                 270
Arg Tyr Leu Val Asp Gly Val Pro Phe Ser Cys Cys Asn Pro Ser Ser
            275                 280                 285
Pro Arg Pro Cys Ile Gln Tyr Gln Ile Thr Asn Asn Ser Ala His Tyr
    290                 295                 300
Ser Tyr Asp His Gln Thr Glu Glu Leu Asn Leu Trp Val Arg Gly Cys
305                 310                 315                 320
Arg Ala Ala Leu Leu Ser Tyr Tyr Ser Ser Leu Met Asn Ser Met Gly
            325                 330                 335
Val Val Thr Leu Leu Ile Trp Leu Phe Glu Val Gly Pro Gly Gln Leu
            340                 345                 350
Gly Val Ala Arg Ser Ser Gly Arg Ile Val Thr Asp
    355                 360
```

<210> 15
<211> 87
<212> DNA
<213> Artificial sequence

<220>
<221> misc_feature
<222> (35)..(37)
<223> Upstream primer used to reamplify amplicons
      Start codon at 35-37

<400> 15
ggatcctaat acgactcact atagggagac caccatgcat caccatcatc accatcacca 60
ctctccagct gtctgtttcc ctttaag   87

```
<210> 16
<211> 35
<212> DNA
<213> Artificial sequence

<220>
<223> Downstream primer used to reamplify amplicons

<400> 16
cttagtcatt ataccccag ctgcccaggg cctac                                    35

<210> 17
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Ending of hemoglobin alpha 2 transcript

<400> 17
gcggcaaaaa aaaaaaaaa aaaaaaa                                              28
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